

Leu Tyr Ser Arg Ala Ala Lys Leu Pro Arg Ile Glu Ile Thr Arg Pro
 165 170 175

 Asp Asn Ile Ile Gly Lys Asn Thr Val Ser Ala Met Gln Ser Gly Ile
 180 185 190

 Leu Phe Gly Tyr Val Gly Gln Val Glu Gly Ile Val Lys Arg Met Lys
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 Trp Gln Ala Lys Gln Asp Pro Arg Ser Leu Arg Gln Glu Ala Trp Arg
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 Arg Ser Leu Arg Thr Asn Gln Ile Val
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 tac aag ata aag gac ctg aaa tta tcg ttg ccc ggc acg aac aaa acg 96
 Tyr Lys Ile Lys Asp Leu Lys Leu Ser Leu Pro Gly Thr Asn Lys Thr
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 cag caa ttc atg gcc caa gca gtc ggc cgt tta act gga aaa ccg gga 144
 Gln Gln Phe Met Ala Gln Ala Val Gly Arg Leu Thr Gly Lys Pro Gly
 35 40 45

 gtc gtg tta gtc aca tca gga ccg ggt gcc tct aac ttg gca aca ggc 192
 Val Val Leu Val Thr Ser Gly Pro Gly Ala Ser Asn Leu Ala Thr Gly
 50 55 60

 ctg ctg aca gcg aac act gaa gga gac cct gtc gtt gcg ctt gct gga 240
 Leu Leu Thr Ala Asn Thr Glu Gly Asp Pro Val Val Ala Leu Ala Gly
 65 70 75 80

 aac gtg atc cgt gca tat cgt tta aaa cgg aca cat caa tct ttg gat 288
 Asn Val Ile Arg Ala Tyr Arg Leu Lys Arg Thr His Gln Ser Leu Asp
 85 90 95

 aat gcg gcg cta ttc cag ccg att aca aaa tac agt gta gaa gtt caa 336
 Asn Ala Ala Leu Phe Gln Pro Ile Thr Lys Tyr Ser Val Glu Val Gln
 100 105 110

 gat gta aaa aat ata ccg gaa gct gtt aca aat gca ttt agg ata gcg 384
 Asp Val Lys Asn Ile Pro Glu Ala Val Thr Asn Ala Phe Arg Ile Ala
 115 120 125

 tca gca ggg cag gct ggg gcc gct ttt gtg agc ttt ccg caa gat gtt 432
 Ser Ala Gly Gln Ala Gly Ala Ala Phe Val Ser Phe Pro Gln Asp Val
 130 135 140

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aaa ctc ggt cct gca gca gat gat gca atc agt gcg gcc ata gca aaa Lys Leu Gly Pro Ala Ala Asp Asp Ala Ile Ser Ala Ala Ile Ala Lys 165 170 175	528
atc caa aca gca aaa ctt cct gtc gtt ttg gtc ggc atg aaa ggc gga Ile Gln Thr Ala Lys Leu Pro Val Val Leu Val Gly Met Lys Gly Gly 180 185 190	576
aga ccg gaa gca att aaa gcg gtt cgc aag ctt ttg aaa aag gtt cag Arg Pro Glu Ala Ile Lys Ala Val Arg Lys Leu Leu Lys Lys Val Gln 195 200 205	624
ctt cca ttt gtt gaa aca tat caa gct gcc ggt acc ctt tct aga gat Leu Pro Phe Val Glu Thr Tyr Gln Ala Ala Gly Thr Leu Ser Arg Asp 210 215 220	672
tta gag gat caa tat ttt ggc cgt atc ggt ttg ttc cgc aac cag cct Leu Glu Asp Gln Tyr Phe Gly Arg Ile Gly Leu Phe Arg Asn Gln Pro 225 230 235 240	720
ggc gat tta ctg cta gag cag gca gat gtt gtt ctg acg atc ggc tat Gly Asp Leu Leu Glu Gln Ala Asp Val Val Leu Thr Ile Gly Tyr 245 250 255	768
gac ccg att gaa tat gat ccg aaa ttc tgg aat atc aat gga gac cgg Asp Pro Ile Glu Tyr Asp Pro Lys Phe Trp Asn Ile Asn Gly Asp Arg 260 265 270	816
aca att atc cat tta gac gag att atc gct gac att gat cat gct tac Thr Ile Ile His Leu Asp Glu Ile Ile Ala Asp Ile Asp His Ala Tyr 275 280 285	864
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gca gat tgg aaa tca gac aga gcg cac cct ctt gaa atc gtt aaa gag Ala Asp Trp Lys Ser Asp Arg Ala His Pro Leu Glu Ile Val Lys Glu 340 345 350	1056
ttg cgt aat gca gtc gat gat cat gtt aca gta act tgc gat atc ggt Leu Arg Asn Ala Val Asp Asp His Val Thr Val Thr Cys Asp Ile Gly 355 360 365	1104
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Thr Leu Met Ile Ser Asn Gly Met Gln Thr Leu Gly Val Ala Leu Pro		
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Trp Ala Ile Gly Ala Ser Leu Val Lys Pro Gly Glu Lys Val Val Ser		
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gtc tct ggt gac ggc ggt ttc tta ttc tca gca atg gaa tta gag aca		1296
Val Ser Gly Asp Gly Gly Phe Leu Phe Ser Ala Met Glu Leu Glu Thr		
420	425	430
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Ala Val Arg Leu Lys Ala Pro Ile Val His Ile Val Trp Asn Asp Ser		
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aca tat gac atg gtg cat ttc cag caa ttg aaa aaa tat aac cgt aca		1392
Thr Tyr Asp Met Val His Phe Gln Gln Leu Lys Lys Tyr Asn Arg Thr		
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Ser Ala Val Asp Phe Gly Asn Ile Asp Ile Val Lys Tyr Ala Glu Ser		
465	470	475
480		
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Phe Gly Ala Thr Ala Leu Arg Val Glu Ser Pro Asp Gln Leu Ala Asp		
485	490	495
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Val Leu Arg Gln Gly Met Asn Ala Glu Gly Pro Val Ile Ile Asp Val		
500	505	510
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Pro Val Asp Tyr Ser Asp Asn Ile Asn Leu Ala Ser Asp Lys Leu Pro		
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<212> PRT

<213> Bacillus subtilis

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35 40 45Val Val Leu Val Thr Ser Gly Pro Gly Ala Ser Asn Leu Ala Thr Gly
50 55 60Leu Leu Thr Ala Asn Thr Glu Gly Asp Pro Val Val Ala Leu Ala Gly
65 70 75 80

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